

In the Claims:

Please amend the claims as follows. No new matter is introduced.

1. (Previously Presented) In a network environment that includes a plurality of nodes and that uses a markup language to create documents, a method for filtering the documents, comprising the steps of:

upon receiving a request from a requesting node among the plurality of nodes,
constructing an input Document Object Model (DOM) based on a document corresponding to the request
storing the input DOM;
identifying elements of the input DOM that have previously been stored;
and
filtering the input DOM to obtain a filtered DOM, based on at least one pre-specified rule being applied to the input DOM.

2. (Original) The method according to claim 1, further comprising the step of sending the filtered DOM to the requesting node

3. (Original) The method according to claim 1, wherein said filtering step filters out previously received content from the filtered DOM based upon the identified elements.

4. (Currently Amended) The method according to claim 1, wherein said filtering step filters out ~~non-relevant~~ content from the filtered DOM with respect to at least one of the request and at least one previous request.

5. (Canceled)

6. (Original) The method according to claim 1, wherein said method further comprises the step of identifying changed data with respect to at least two interactions between the requesting node and another node from among the plurality of nodes.
7. (Original) The method according to claim 6, wherein said filtering step comprises the step of including only the changed data in the filtered DOM.
8. (Original) The method according to claim 1, wherein the at least one pre-specified rule comprises removing previously received content from the input DOM, when the at least one client device has at least one pre-specified limited resource.
9. (Original) The method according to claim 8, wherein the at least one pre-specified limited resource comprises at least one of a bandwidth, a memory capacity, a processing ability, and a display screen area, less than a pre-defined threshold.
10. (Original) The method according to claim 1, wherein the at least one pre-specified rule comprises removing previously received content from the input DOM, when a user of the at least one client device is one of seeing and hearing impaired.
11. (Currently Amended) The method according to claim 1, wherein the at least one pre-specified rule comprises removing ~~non-relevant~~ content from the input DOM when the at least one client device has at least one pre-specified limited resource.
12. (Currently Amended) The method according to claim 1, wherein the at least one pre-specified rule comprises removing ~~non-relevant~~ content from the input DOM when a user of the at least one client device is one of seeing and hearing impaired.
13. (Original) The method according to claim 1, further comprising the step of inserting a first identifier in the filtered DOM to indicate a filtered status.

14. (Original) The method according to claim 13, further comprising the step of inserting a second identifier in the filtered DOM to indicate a source document from which the filtered DOM originated.

15. (Original) The method according to claim 14, wherein the first and the second identifiers are comprised in a HyperText Transfer Protocol (HTTP) extension header.

16. (Original) The method according to claim 14, wherein the first and the second identifiers are comprised in a transport layer for Wireless Application Protocol (WAP).

17. (Original) The method according to claim 14, wherein the second identifier is a Uniform Resource Locator (URL) specifying a location of the source document.

18. (Original) The method according to claim 1, wherein said filtering step comprises the step of removing presentational markup from the DOM.

19. (Original) The method according to claim 1, wherein said storing step stores the input DOM in a cache, and said identifying step identifies the elements of the input DOM that have previously been cached.

20. (Original) The method according to claim 1, wherein said method is implemented by a program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform said method steps.

21. (Original) The method according to claim 1, wherein the markup language is eXtensible Markup Language (XML) and the input DOM and filtered DOM are pseudo DOMs.

22. (Original) The method according to claim 1, wherein the network environment is a client/server environment, the plurality of nodes includes a client device, and the requesting node is the client device.

23. (Original) The method according to claim 1, wherein the network environment is a client/server environment, the plurality of nodes includes at least one client device, at least one server, and at least one intermediary coupled therebetween, and the requesting node is an intermediary.

24. (Original) The method according to claim 6, wherein the network environment is a client/server environment, the plurality of nodes includes at least one client device and at least one server, the requesting node is a client device and the other node is the at least one server.

25. (Original) The method according to claim 6, wherein the network environment is a client/server environment, the plurality of nodes includes at least one client device, at least one server, and at least one intermediary coupled therebetween, the requesting node is a client device or an intermediary and the other node is a server or another intermediary.

26. (Original) The method according to claim 1, wherein the network environment is a client/server environment, the plurality of nodes includes a client device, and said filtering step is performed by the client device.

27. (Original) The method according to claim 1, wherein the network environment is a client/server environment, the plurality of nodes includes at least one client device, at least one server, and at least one intermediary coupled therebetween, and said filtering step is performed by the at least one intermediary.

28. (Currently Amended) A system for filtering markup language documents in a client/server environment having at least one client device and at least one server, said system comprising:

an intermediary operatively coupled between the at least one client device and the at least one server, adapted to receive a request sent from the at least one client device or from another intermediary, and to receive a document corresponding to the request;

a filter operatively coupled to said intermediary, adapted to build an input document object model (DOM) based on the document, and filter the input DOM to output a filtered DOM based on at least one pre-specified rule being applied to the input DOM; and

a differential DOM coder operatively coupled to at least one of the at least one client device and the intermediary, adapted to receive the filtered DOM and to identify and output at least changed data with respect to the input DOM and the filtered DOM,

wherein said filter is further adapted to filter the input DOM prior to transcoding the at least one XML page corresponding to the input DOM to at least one target presentation page in a multi-channel application or prior to transcoding the at least one XML page to at least one synchronized page in a multi-modal mode.

29. (Previously Presented) A system for filtering markup language documents in a client/server environment having at least one client device and at least one server, said system comprising:

an intermediary operatively coupled between the at least one client device and the at least one server, adapted to receive a request from the at least one client device or another intermediary, receive a document corresponding to the request, and to output a

filtered document object model (DOM) to the at least one client device or the other intermediary;

a storage device operatively coupled to said intermediary, adapted to store an input DOM, and identify elements of the input DOM that have previously been stored; and

a filter operatively coupled to said storage device and said intermediary or the other intermediary, adapted to build the input DOM based on the document, and filter the input DOM to obtain the filtered DOM based on at least one pre-specified rule being applied to at least one of the input DOM and the identified elements.

30. (Original) The system according to claim 29, wherein at least one of said storage device and said filter is disposed within said intermediary, the other intermediary, or a combination thereof.

31. (Original) The system according to claim 29, wherein said storage device is further adapted to track a history of user interaction.

32. (Original) The system according to claim 31, wherein the history of user interaction comprises World Wide Web (WWW) pages visited during a given interactive session.

33. (Original) The system according to claim 29, wherein said storage device is a cache.

34. (Original) The system according to claim 29, wherein said filter is adapted to filter the input DOM so as to remove previously received content therefrom.

35. (Currently Amended) The system according to claim 29, wherein said filter is adapted to filter the input DOM so as to remove ~~non-relevant~~ content therefrom with respect to at least one of the request and at least one previous request.

36. (Original) The system according to claim 29, wherein said client device further comprises a speech synthesis system adapted to audibly reproduce an audio signal corresponding to the filtered DOM.

37. (Original) The system according to claim 29, wherein said filter is adapted to filter the input DOM one of prior to, during, and after transcoding at least one page corresponding to the input DOM.

38. (Original) The system according to claim 37, wherein the at least one page comprises at least one XML page and said filter is further adapted to filter the input DOM prior to transcoding the at least one XML page to at least one target presentation page in a multi-channel application or prior to transcoding the at least one XML page to at least one synchronized page in a multi-modal mode.

39. (Original) The system according to claim 29, wherein said filter is further adapted to filter the input DOM in a multi-channel mode.

40. (Original) The system according to claim 29, wherein said filter is further adapted to filter the input DOM in a multi-modal mode.

41. (Original) The system according to claim 29, wherein said filter is further adapted to filter the input DOM in a channel/modality independent mode.

42. (Original) The system according to claim 29, wherein the filtered DOM includes at least one of speech, Wireless Markup Language (WML), Voice eXtensible Markup Language (VoiceXML), and Conversational Markup Language (CML).